

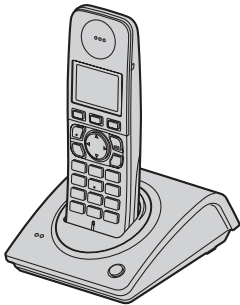
# Panasonic

## Operating Instructions

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Digital Cordless Phone

Model No. **KX-TG8070HK**



**This unit is Caller ID compatible. To display the caller's phone number, you must subscribe to Caller ID service.**

**Charge the batteries for about 8 hours before initial use.**

Please read these operating instructions before using the unit and save them for future reference.

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## Introduction

**Thank you for purchasing a new Panasonic digital cordless phone.**

**For your future reference**

Keep original receipt and guarantee card to assist with any repair under warranty.

Serial No. (found on the bottom of the base unit)
Date of purchase
Name and address of dealer

**Note:**

- In the event of problems, you should contact your equipment supplier in the first instance.

## Accessory information

### Supplied accessories

No.	Accessory items	Quantity
①	AC adaptor for base unit Part No. PQWATG1070E	1
②	Telephone line cord	2
③	Rechargeable batteries AAA (R03) size Part No. HHR-4EPT	2
④	Handset cover <sup>*1</sup>	1
⑤	Belt clip	1

<sup>\*1</sup> The handset cover comes attached to the handset.



### Additional/replacement accessories

Please contact your nearest Panasonic dealer for sales information.

No.	Model No.	Description
①	KX-TGA807HM	Additional Digital Cordless Handset
②	KX-TCA94EX	Headset

#### Note:

- When replacing the batteries, use only 2 rechargeable AAA (R03) size nickel metal hydride (Ni-MH) batteries. We recommend using Panasonic rechargeable batteries (Model No. HHR-4EPT).
- Replacement batteries may have a different capacity from that of the supplied batteries.

②



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## Important information

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### General

- Use only the AC adaptor supplied with this product, noted on page 4.
- Do not connect the AC adaptor to any AC outlet other than a standard 220–240 V AC outlet.
- This product is unable to make calls when:
  - the portable handset battery(ies) need recharging or have failed.
  - there is a power failure.
  - the key lock feature is turned on.
- Do not open the base unit, charger, or handset other than to replace the battery(ies).
- Consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The product operates in the frequency range of 1.88 GHz to 1.90 GHz, and the power output is 250 mW (max.)) Do not use the product in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.
- Care should be taken that objects do not fall onto, and liquids are not spilled into, the product. Do not subject this product to excessive smoke, dust, mechanical vibration or shock.

### Environment

- Do not use this product near water.
- This product should be kept away from heat sources such as radiators, cookers, etc. It should also not be placed in rooms where the temperature is less than 5 °C or greater than 40 °C.

### Warning:

- To prevent the risk of electrical shock, do not expose this product to rain or any other type of moisture.
- Unplug this product from power outlets if it emits smoke, an abnormal smell, or makes unusual noise. These conditions can cause fire or electric shock. Confirm that smoke has stopped emitting and contact an authorised service centre.

- Do not spill liquids (detergents, cleansers, etc.) onto the telephone line cord plug, or allow it to become wet at all. This may cause a fire. If the telephone line cord plug becomes wet, immediately pull it from the telephone wall jack, and do not use.
- Do not place or use this product near automatically controlled devices such as automatic doors and fire alarms. Radio waves emitted from this product may cause such devices to malfunction resulting in an accident.
- Regularly remove any dust, etc. from the AC adaptor/power plug by pulling it from the power outlet, then wiping with a dry cloth. Accumulated dust may cause an insulation defect from moisture, etc. resulting in a fire.
- Do not damage the power cord/plug. This may cause a short circuit, electric shock, and/or fire.
- Do not touch the plug with wet hands.
- The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is installed near the product and is easily accessible.

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### Battery caution

- We recommend using the battery(ies) noted on page 4. **Use only rechargeable battery(ies).**
- Do not mix old and new batteries.
- Do not dispose of the battery(ies) in a fire, as they may explode. Check with local waste management codes for special disposal instructions.
- Do not open or mutilate the battery(ies). Released electrolyte from the battery(ies) is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
- Exercise care when handling the battery(ies). Do not allow conductive materials such as rings, bracelets or keys to touch the battery(ies), otherwise a short circuit may cause the battery(ies) and/or the conductive material to overheat and cause burns.
- Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.
- Only use a compatible base unit (or charger) to charge the battery(ies). Do not tamper with the base unit (or charger). Failure to follow these instructions may cause the battery(ies) to swell or explode.

## Notice for product disposal, transfer, or return

- This product can store your private/confidential information. To protect your privacy/confidentiality, we recommend that you erase the information such as phonebook or caller list entries from the memory before you dispose, transfer or return the product.

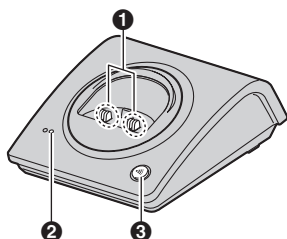
## Information on Disposal in other Countries outside the European Union



This symbol is only valid in the European Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

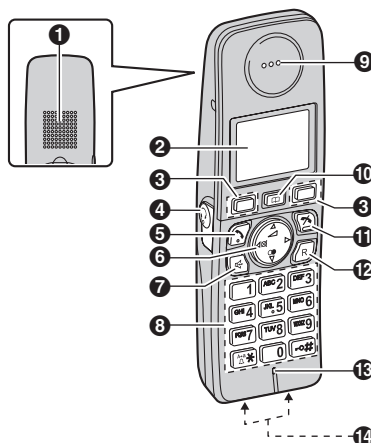
## Controls

### Base unit



- 1 Charge contacts
- 2 Ringer
- 3 [ⓘ] (Page)

### Handset



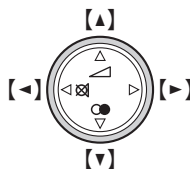
- 1 Speaker
- 2 Display
- 3 Soft keys
- 4 Headset jack
- 5 [↵] (Talk)
- 6 Navigator key ([▲]/[▼]/[◀]/[▶])  
[▲/▶]/[▼]: (Volume)  
[▼/●] (Redial)  
[◀/⊗] (Mute)
- 7 [☎] (Speakerphone)
- 8 Dial keypad
- 9 Receiver
- 10 [☎] (Phonebook)
- 11 [✕] (Off)
- 12 [R] (Flash)
- 13 Microphone
- 14 Charge contacts

### Using the navigator key

Press [▲], [▼], [◀], or [▶] to navigate through menus and to select items shown on the display.

### Adjusting the receiver or speaker volume

Press [▲] or [▼] while on a call.



## Displays

### Display icons (located at the top of the display)

Icon	Meaning
	Within range of a base unit <ul style="list-style-type: none"> <li>When flashing: Handset is searching for base unit. (page 23)</li> </ul>
	Speakerphone is on.
	Headset (option) is connected.
	Line is being used. <ul style="list-style-type: none"> <li>When flashing: There is an incoming call.</li> </ul>
	Mute is on. (page 12)
	Ringer volume is off. (page 15)
	Key lock is on. (page 13)
	Battery level

#### Note:

- The current handset number is displayed next to the handset name on the display in standby mode.

### Display icons (located at the bottom of the display)

Icon	Meaning
	Lower case when entering characters/numbers
	Upper case when entering characters/numbers
	Number selection when entering characters/numbers <sup>*1</sup>
	Missed call <sup>*2</sup> (page 18)

<sup>\*1</sup> Lower case letters can be also selected.

<sup>\*2</sup> Caller ID subscribers only

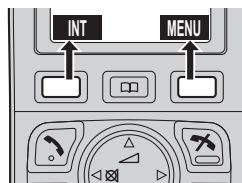
### Menu icons

When in standby mode, pressing the right soft key reveals the handset's main menu. From here you can access various features and settings.

Icon	Feature
	Set Date & Time
	Caller List
	Display Setup
	Handset Setup
	Base Unit Setup
	Ringer Setup

### Soft keys

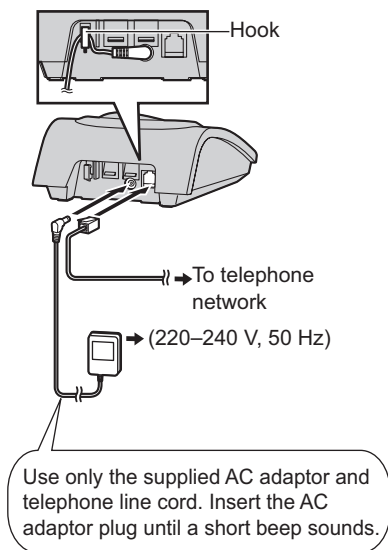
The handset features 2 soft keys. By pressing a soft key, you can select the feature or operation indicated by the soft key icon shown directly above it.



### Soft key icons

Icon	Action
	Returns to the previous screen.

### Connections



#### Note:

- Never install telephone wiring during a lightning storm.
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- The AC adaptor should be connected to a vertically oriented or floor-mounted AC outlet. Do not connect the AC adaptor to a ceiling-mounted AC outlet, as the weight of the adaptor may cause it to become disconnected.
- The unit will not work during a power failure. We recommend connecting a corded telephone to the same telephone line or to the same telephone jack using a T-adaptor.

#### Location of base unit

- For maximum coverage and noise-free communications, place your base unit:
  - at a convenient, high, and central location with no obstructions between the handset and base unit in an indoor environment.
  - away from electronic appliances such as TVs, radios, personal computers, wireless devices or other phones.
  - avoid facing radio frequency transmitters, such as external antennas of mobile phone cell stations (Avoid putting the base unit on the bay window or near the window).
- Coverage and voice quality depends on the local environmental conditions.
- If the reception for a base unit location is not satisfactory, move the base unit to another location for better reception.

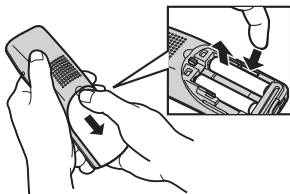


## Battery installation and replacement

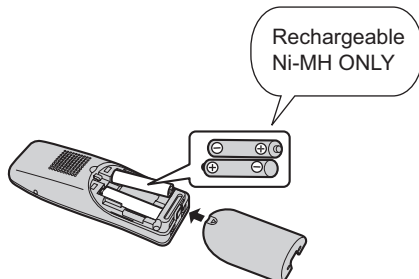
### Important:

- Use only the supplied rechargeable batteries noted on page 4, 5.
- USE ONLY rechargeable Ni-MH batteries AAA (R03) size.
- Do NOT use Alkaline/Manganese/Ni-Cd batteries.
- Ensure correct polarities ( $\oplus$ ,  $\ominus$ ) when installing the batteries.
- Wipe the battery ends ( $\oplus$ ,  $\ominus$ ) with a dry cloth.
- When installing the batteries, avoid touching the battery ends ( $\oplus$ ,  $\ominus$ ) or the unit contacts.
- When replacing batteries, we recommend using the Panasonic rechargeable batteries noted on page 4, 5.

- 1 Press the notch on the handset cover firmly and slide it in the direction of the arrow.



- 2 Insert the batteries negative ( $\ominus$ ) end first. Close the handset cover.




## Battery charge

Place the handset on the base unit for about 8 hours before initial use.

When charging, the battery icon is shown as follows.






When the batteries are fully charged,  remains on the display.



### Note:

- It is normal for the handset to feel warm during charging.
- If you want to use the unit immediately, charge the batteries for at least 15 minutes.
- Clean the charge contacts of the handset and base unit with a soft, dry cloth once a month. Clean more often if the unit is subject to the exposure of grease, dust, or high humidity.


**Battery level**

Battery icon	Battery level
	High
	Medium
	Low <ul style="list-style-type: none"> <li>When flashing: Needs to be charged.</li> </ul>

**Panasonic Ni-MH battery performance (supplied batteries)**

Operation	Operating time
In continuous use	10 hours max.
In continuous standby mode	100 hours max.

**Note:**

- It is normal for batteries not to reach full capacity at the initial charge. Maximum battery performance is reached after a few complete cycles of charge/discharge (use).
- To maximize battery life, it is recommended that the handset batteries be fully discharged (used) until  flashes once every few months.
- Actual battery performance depends on a combination of how often the handset is in use and how often it is not in use (standby).
- The battery level may not be displayed correctly after you replace the batteries. In this case, place the handset on the base unit and let it charge for at least 8 hours.

**Screen saver mode****If the handset is not on the base unit**

**The backlight will turn off completely after 1 minute of inactivity**, even when on a call.


To use the handset when it is in screen saver mode, activate the handset display again by:

- pressing [**▲**] or [**▼**] when on a call
- pressing [**✕**] for all other times

**While charging**

**The backlight will be dimmed after 1 minute of inactivity.** The backlight can be turned off completely depending on the setting (page 15). To use the handset when it is in screen saver mode, lift the handset to activate the handset display again.

**Setting up the unit before use****Display language**

- [**✕**] → [**MENU**]
- Select  by pressing [**▲**], [**▼**], [**◀**], or [**▶**]. → [**OK**]
- Press [**▲**] or [**▼**] to select “Display Setup”. → [**OK**]
- Press [**▲**] or [**▼**] to select “Select Language”. → [**OK**]
- Press [**▲**] or [**▼**] to select the desired language. → [**OK**] → [**✕**]

**Note:**


- If you select a language you cannot read: [**✕**] → [**MENU**] (right soft key) → [**▶**] 2 times → [**OK**] (right soft key) → [**▼**] 2 times → [**OK**] (right soft key) → [**▶**] 2 times → [**OK**] (right soft key) → [**▲**]/[**▼**]: Select the desired language. → [**OK**] (right soft key) → [**✕**]

## Dialling mode (tone/pulse)


Change the dialling mode depending on your telephone line service.

“**Tone**”: Select when you have a touch-tone service.

“**Pulse**”: Select when you have rotary/pulse service.

- 1 **[MENU]** (right soft key)
- 2 Select  by pressing **[▲]**, **[▼]**, **[◀]**, or **[▶]**. → **[OK]**
- 3 Enter the base unit PIN (default: “0000”). → **[OK]**
  - If you forget your PIN, consult your nearest Panasonic service centre.
- 4 Press **[▲]** or **[▼]** to select “**Call Options**”. → **[OK]**
- 5 Press **[▲]** or **[▼]** to select “**Dial Mode**”. → **[OK]**
- 6 Press **[▲]** or **[▼]** to select the desired setting. → **[OK]** → **[↶]**

## Date and time

- 1 **[MENU]** (right soft key)
- 2 Select  by pressing **[▲]**, **[▼]**, **[◀]**, or **[▶]**. → **[OK]**
- 3 Press **[▲]** or **[▼]** to select “**Set Date & Time**”. → **[OK]**
- 4 Enter the current date, month, and year. → **[OK]**  
**Example:** 17 May, 2007  
**[1][7] [0][5] [0][7]**
  - You can select the format by pressing **[#]**:
    - mm-dd-yy (month-date-year)
    - yy-mm-dd
    - yy-dd-mm
    - dd-mm-yy
- 5 Enter the current hour and minute.  
**Example:** 3:30 PM  
**[0][3] [3][0]** → Press **[\*]** until “03:30PM” is displayed.
- 6 **[OK]** → **[↶]**

### Note:

- To correct a digit, press **[◀]** or **[▶]** to move the cursor to the digit, then make the correction.
- The date and time will be reset on the handset display after a power failure. In this case, set the date and time again.

## Making calls

- 1 Lift the handset and dial the phone number.
  - To correct a digit, press **[DEL]**.
- 2 **[☞]**
- 3 When finished talking, press **[⏏]** or place the handset on the base unit.

### Speakerphone

- 1 During a conversation, press **[☎]** to turn on the speakerphone.
  - Speak alternately with the caller.
- 2 When finished talking, press **[⏏]**.

#### Note:

- For best performance, use the speakerphone in a quiet environment.
- To switch back to the receiver, press **[☞]**.
- Speakerphone cannot be used when the headset is connected.

### Adjusting the receiver or speaker volume

Press **[▲]** or **[▼]** while on a call.

## Making a call using the redial list

The last 10 phone numbers dialed are stored in the redial list (each 24 digits max.).

- 1 **[▼/☐]**
- 2 **[▲]/[▼]**: Select the desired number.
- 3 **[☞]**

### Editing/erasing/storing

- 1 **[▼/☐]**
- 2 **[▲]/[▼]**: Select the desired number. → **[MENU]**
- 3 Proceed with the desired operation.
  - **Editing a number before calling it:**  
**[▲]/[▼]**: "Edit and Call" → **[OK]** →  
 Press **[◀]** or **[▶]** to move the cursor. →  
 Edit the number. → **[☞]**
  - **Erasing numbers:**  
**[▲]/[▼]**: "Erase" or "Erase All" →  
**[OK]** → **[YES]** → **[⏏]**

### ■ Storing a number into the handset phonebook:

**[▲]/[▼]**: "Add Phonebook" → **[OK]** →  
 Enter a name (15 characters max.; page 22). → **[OK]** → **[⏏]**

#### Note:

- When editing:
  - To erase a number, place the cursor to the right of where you want to erase the number, then press **[DEL]**.
  - To insert a number, place the cursor where you want to insert the number, then press the appropriate dial key.

## Pause (for PBX/long distance service users)

A pause is sometimes required when making calls using a PBX or long distance service.

**Example:** If you have to dial **[9]** before dialling outside numbers manually, you will probably need to pause after dialling **[9]** until you hear a dial tone.

- 1 Press **[9]** to reproduce a dial tone for outside calls.
- 2 Press **[0]** for about 2 seconds to enter a pause.
- 3 Dial the phone number. → **[☞]**

#### Note:

- A 3 second pause is inserted each time **[0]** is pressed for about 2 seconds. Repeat as needed to create longer pauses.

## Useful features during a call

### Mute

While mute is turned on, you will be able to hear the other party, but the other party will not be able to hear you.

To mute your voice, press **[◀/⏏]**.

- **[⏏]** is displayed.
- To return to the conversation, press **[▶/⏏]** again.

## R button

Pressing **[R]** allows you to use special features of your host PBX such as transferring an extension call, or accessing optional telephone services.

### Note:

- To change the flash time, see page 17.

## For Call Waiting service users

To use Call Waiting, you must subscribe to the Call Waiting service of your service provider/telephone company. This feature allows you to receive calls while you are already talking on the phone. If you receive a call while on the phone, you will hear a Call Waiting tone. Please contact your service provider/telephone company for details and availability of this service in your area. Press **[R]** to answer the 2nd call.

- To switch between calls, press **[R]**.

## Key lock

The handset can be locked so that no calls or settings can be made. Incoming calls can be answered, but all other functions are disabled while key lock is on.

To turn key lock on, press **[#]** for about 2 seconds in standby mode.

- **[L]** is displayed.
- To turn key lock off, press **[#]** again for about 2 seconds in standby mode.

### Note:

- Calls to emergency numbers cannot be made until key lock is turned off.

## Temporary tone dialling (for rotary/pulse service users)

You can temporarily switch the dialling mode to tone when you need to access touch-tone services (e.g., telephone banking services).

- 1 Make a call.
- 2 Press **[\*]** when prompted to enter your code or PIN, then press the appropriate dial keys.

### Note:

- The dialling mode will return to pulse when you hang up.

## Answering calls

- 1 Lift the handset and press **[📞]** or **[📞]** when the unit rings.
  - Speakerphone cannot be used when the headset is connected.
- 2 When finished talking, press **[📞]** or place the handset on the base unit.

## Auto talk feature

You can answer calls simply by lifting the handset off the base unit. You do not need to press **[📞]**. To turn this feature on, see page 15.

## Adjusting the handset ringer volume when receiving a call

Press **[▲]** or **[▼]**.

## Temporary ringer off

While the handset is ringing for a call, you can turn the ringer off temporarily by pressing **[📞]**.

## Silent mode

To switch off the ringer, press and hold **[\*]** when in standby mode until **📞** shows on the display.

- When an incoming call is received, only **📞** flashes on the display to indicate an incoming call. To switch on the ringer, press and hold **[\*]** when in standby mode until **📞** disappears from the display.

### Note:

- Even if silent mode is set, the handset will ring for paging.

## Handset locator

Using this feature, you can locate the handset if it has been misplaced.

- 1 Press **[📞]** on the base unit.
- 2 To stop paging, press **[📞]** on the base unit or press **[📞]** on each handset.

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## Handset phonebook

The handset phonebook allows you to make calls without having to dial manually. You can add 200 names and phone numbers.

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### Adding entries

- 1 **[□]** → **[MENU]**
- 2 **[▲]/[▼]**: “**New Entry**” → **[OK]**
- 3 Enter the party's name (15 characters max.; page 22). → **[OK]**
- 4 Enter the party's phone number (24 digits max.). → **[OK]** → **[↵]**

#### Note:

- The number of entries stored in the phonebook is displayed on the bottom of the handset display.

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### Finding and calling a handset phonebook entry

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#### Scrolling through all entries

- 1 **[□]**
- 2 **[▲]/[▼]**: Select the desired entry.
- 3 **[↵]**

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#### Searching by first character

- 1 **[□]**
- 2 Press the dial key (**[0]** to **[9]**) which contains the character you are searching for (page 22).
  - Press the same dial key repeatedly to display the first entry corresponding to each letter located on that dial key.
- 3 Press **[▲]** or **[▼]** to scroll through the phonebook if necessary.
- 4 **[↵]**

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### Editing entries

- 1 Find the desired entry (page 14). → **[MENU]**
- 2 **[▲]/[▼]**: “**Edit**” → **[OK]**
- 3 Edit the name if necessary (15 characters max.; page 22). → **[OK]**
- 4 Edit the phone number if necessary (24 digits max.). → **[OK]** → **[↵]**

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### Erasing entries

- 1 Find the desired entry (page 14). → **[MENU]**
- 2 **[▲]/[▼]**: “**Erase**” or “**Erase All**” → **[OK]**
- 3 **[YES]** → **[↵]**

---

### Chain dial

This feature allows you to dial phone numbers in the handset phonebook while you are on a call. This feature can be used, for example, to dial a calling card access number or bank account PIN that you have stored in the handset phonebook, without having to dial manually.


- 1 While on a call, press **[MENU]**.
- 2 **[▲]/[▼]**: “**Phonebook**” → **[OK]**
- 3 **[▲]/[▼]**: Select the desired entry.
- 4 Press **[OK]** to dial the number.

#### Note:

- If you are using this phone in pulse dialling mode, you may need to press **[✱]** to change the dialling mode to tone before chain dialling. When adding entries to the handset phonebook, we recommend adding **[✱]** to the beginning of phone numbers you wish to chain dial (page 14).

## Handset settings


To customise the handset:

- 1 **[MENU]** (right soft key)
- 2 Select  by pressing **[▲]**, **[▼]**, **[◀]**, or **[▶]**. → **[OK]**
- 3 Press **[▲]** or **[▼]** to select the desired item in the handset settings menu. → **[OK]**
- 4 Press **[▲]** or **[▼]** to select the desired item in the sub-menu. → **[OK]**
- 5 Press **[▲]** or **[▼]** to select the desired setting then press **[OK]**.
  - This step may vary depending on the feature being programmed.
  - To exit the operation, press **[✕]**.

**Note:**

- The selected item is highlighted on the display. The currently activated setting is indicated by "**I**" located on the left of the item on the display.

Menu	Sub-menu	Details (default setting)
Set Date & Time	—	page 11
Ringer Setup	Ringer Volume	For handset ("Volume 5") <sup>*1</sup>
	Ext. Ringtone	For outside calls ("Ringtone 1") <sup>*2</sup>
	Int. Ringtone	For intercom calls ("Ringtone 2 ")
Display Setup	Wallpaper	Wallpaper 1 <sup>*3</sup>
	Handset Name	("Handset"): page 16
	Select Language	("English"): page 10
	Contrast	("Contrast 5")
	Dimmed Backlight	("On") <sup>*4</sup>
Auto Talk	—	("Off"): page 13
Registration	Register Handset	page 19
	Deregistration	page 19
Select Base	—	("Base 1"): page 19
Tone Options	Keytones	("On")
	Battery Low	("On")
	Out of Range	("Off")

<sup>\*1</sup> When the ringer volume is turned off,  is displayed and the handset does not ring for outside calls and intercom calls. However even when the ringer volume is turned off, the handset rings for paging (page 13).

<sup>\*2</sup> If you select one of the melody ringtones, the ringtone will continue to sound for several seconds if the caller hangs up before you answer. You may hear a dial tone or no one on the line when you answer a call.

<sup>\*3</sup> You can select between 3 kinds of wallpapers and "Off".

<sup>\*4</sup> The handset automatically switches to the selected dimmed backlight mode after 1 minute of charging without key activity:


- "Off": Backlight turns off.
- "On": Backlight is dimmed.
- "For 10 minutes": Backlight is dimmed for 10 minutes then turns off.

## Special instructions for display setup

---

### Handset names


Each handset can be given a customised name ("Bob", "Kitchen", etc.), which is shown on the display in standby mode. This is useful when you have multiple handsets. The current handset number is displayed next to the handset name.

- 1 **[MENU]** (right soft key) →  → **[OK]**
- 2 **[▲]/[▼]**: "Display Setup" → **[OK]**
- 3 **[▲]/[▼]**: "Handset Name" → **[OK]**
- 4 Edit the name (15 characters max.; page 22). → **[OK]** → **[✕]**



## Base unit settings

To customise the base unit:

- 1 **[MENU]** (right soft key)
- 2 Select  by pressing **[▲]**, **[▼]**, **[◀]**, or **[▶]**. → **[OK]**
- 3 Enter the base unit PIN (Personal Identification Number; default: "0000"). → **[OK]**
- 4 Press **[▲]** or **[▼]** to select the desired item in the base unit settings menu. → **[OK]**
- 5 Press **[▲]** or **[▼]** to select the desired item in the sub-menu. → **[OK]**
- 6 Press **[▲]** or **[▼]** to select the desired setting then press **[OK]**.
  - This step may vary depending on the feature being programmed.
  - To exit the operation, press **[✕]**.

**Note:**

- Use the handset to customise the base unit.
- The selected item is highlighted on the display. The currently activated setting is indicated by "I" located on the left of the item on the display.

Menu	Sub-menu	Details (default setting)
Ringer Setup	Ringer Volume	For base unit ("Volume 3")
	Ringtone	("Ringtone 1")
Call Options	Dial Mode	("Tone"): page 11
	Recall/Flash	Flash time ("400 msec.") <sup>*1</sup>
	PBX Access No.	Enter the 1-digit code. → <b>[OK]</b> <sup>*2</sup>
Base Unit PIN	—	Change base unit PIN ("0000"). <sup>*3</sup> – Enter the new 4-digit base unit PIN. <sup>*4</sup> → <b>[OK]</b> – Enter the new 4-digit base unit PIN again. → <b>[OK]</b>

<sup>\*1</sup> Change the flash time, if necessary, depending on the requirements of your service provider/telephone company or PBX.

<sup>\*2</sup> If you store the PBX access number, a pause will be added automatically between the PBX access number and the first digit of the phone number when you make calls.

<sup>\*3</sup> If you change the PIN, please make note of your new PIN. The unit will not reveal the PIN to you.

<sup>\*4</sup> If you forget your PIN, consult your nearest Panasonic service centre.

## Using Caller ID service

### Important:

- This unit is Caller ID compatible. To use Caller ID features (such as displaying caller phone numbers), you must subscribe to Caller ID service. Consult your service provider/telephone company for details.

### Caller ID features

When an outside call is received, the caller's phone number will be displayed.

- Phone numbers of the last 30 callers will be logged in the caller list.
- When caller information is received and it matches a phone number stored in the unit's phonebook, the stored name will be displayed and logged in the caller list.
- If the unit is connected to a PBX system, you may not receive the caller information.
- When the caller dialed from an area which does not provide Caller ID service, "Out of Area" will be displayed.
- When the caller requested not to send caller information, either no information or "Private Caller" will be displayed.

### Missed calls

If a call is not answered, the unit treats the call as a missed call. "New Calls" and ➡ are shown on the display. This lets you know if you should view the caller list to see who called while you were out. "New Calls" and ➡ remain until you view all missed calls.

### Call Waiting Caller ID display

If you subscribe to both Caller ID and Call Waiting with Caller ID services, the 2nd caller's information is displayed after you hear a Call Waiting tone. You can answer the 2nd call, keeping the 1st call on hold.

### Note:

- Please contact your service provider/telephone company for details and availability of this service in your area.

## Caller list

### Viewing the caller list and calling back

- 1 [▲]
- 2 Press [▼] to search from the most recent call, or press [▲] to search from the oldest call.
  - If the item has already been viewed or answered, "✓" is displayed, even if it was viewed or answered using another handset.
- 3 [↶]

### Editing a caller's phone number before calling back

- 1 [▲]
- 2 [▲]/[▼]: Select the desired entry. → [OK]
- 3 Edit the number.
  - Press [←] or [→] to move the cursor. Press dial key ([0] to [9]) to add, [DEL] to delete.
- 4 [↶]

### Erasing caller information

- 1 [▲]
- 2 [▲]/[▼]: Select the desired entry. → [MENU]
- 3 [▲]/[▼]: "Erase" or "Erase All" → [OK]
- 4 [YES] → [↶]

### Storing caller information into the handset phonebook

- 1 [▲]
- 2 [▲]/[▼]: Select the desired entry. → [MENU]
- 3 [▲]/[▼]: "Add Phonebook" → [OK]
- 4 Enter the party's name (15 characters max.; page 22). → [OK] → [↶]

## Operating additional units

### Additional handsets

Up to 5 handsets can be registered to a single base unit.


#### Important:




- The additional handset model recommended for use with this unit is noted on page 4. If other model handset is used, certain operations (handset settings, base unit settings, etc.) may not be available.
- Additional handsets will give you the freedom to, for example, have an intercom call with another handset while a third handset is on an outside call.


### Additional base units

Handsets can be registered to up to 4 base units, allowing you to add additional base units and extend the area in which your handset(s) can be used. You need to select the desired base unit to use the handset with (page 19).

## Registering a handset to a base unit


The supplied handset and base unit are pre-registered. If for some reason the handset is not registered to the base unit (for example,  flashes even when the handset is near the base unit), register the handset.

- 1 Press and hold  on the base unit for about 5 seconds until a beep is heard.
  - If all registered handsets start ringing, press  to stop, then repeat this step.
  - After a beep is heard, the rest of this procedure must be completed within 1 minute.
- 2 **[MENU]** (right soft key) →  → **[OK]**
- 3 **[▲]/[▼]**: “Registration” → **[OK]**
- 4 **[▲]/[▼]**: “Register Handset” → **[OK]**
- 5 **[▲]/[▼]**: Select a base unit number. → **[OK]**
  - This number is used by the handset as a reference only.
  - The registered base unit is indicated by “\*”.

- 6 “Enter PIN” is displayed. Enter the base unit PIN (default: “0000”). → **[OK]**
  - If you forget your PIN, consult your nearest Panasonic service centre.
  - When the handset has been registered successfully,  will stop flashing. If the key tone is turned on (page 15), a confirmation tone will be heard.


### Selecting a base unit

When a specific base unit is selected, the handset will make and receive calls using that base unit only. If the handset is out of range of that base unit, no calls can be made.

- 1 **[MENU]** (right soft key) →  → **[OK]**
- 2 **[▲]/[▼]**: “Select Base” → **[OK]**
- 3 **[▲]/[▼]**: Select the desired base unit. → **[OK]**
  - The selected base unit is indicated by “■” located on the left of the item on the display.
  - The handset starts searching for the base unit.

### Deregistering a handset

A handset can cancel its own registration (or the registration of another handset) that is stored in the base unit. This will allow the base unit to “forget” the handset.

- 1 **[MENU]** (right soft key) →  → **[OK]**
- 2 **[▲]/[▼]**: “Registration” → **[OK]**
- 3 **[▲]/[▼]**: “Deregistration” → **[OK]**
- 4 Enter the base unit PIN (default: “0000”). → **[OK]**
  - If you forget your PIN, consult your nearest Panasonic service centre.
  - The numbers of all handsets registered to the base unit are displayed.
  - The handset you are using is indicated by “■” located on the left of the item on the display.
- 5 **[▲]/[▼]**: Select the handset(s) you want to cancel. → **[OK]**
- 6 **[YES]** → **[↯]**

#### Note:

- “Register!” is shown on the handset display when you cancel registration.

- If you want to register the handset to other base unit(s), follow "Registering a handset to a base unit", page 19.
- If the cancelled handset is registered to other base unit(s), select the base unit by following "Selecting a base unit", page 19.
- If you do not use the handset, we recommend removing the battery to prevent malfunctioning.

---

## Intercom between handsets

Intercom calls can be made between handsets.

**Example:** When handset 1 calls handset 2

**1 Handset 1:**

[INT] → [▲]/[▼]: "Handset 2" (desired handset number). → [OK]

**2 Handset 2:**

[↶]

**3** When finished talking, press [↷].

---

## Transferring calls between handsets, conference calls

Outside calls can be transferred between 2 people.  
2 people can have a conference call with an outside party.

**Example:** When handset 1 transfers a call to handset 2

**1 Handset 1:**

During an outside call, press [INT]. → [▲]/[▼]: "Handset 2" (desired handset number). → [OK]

- The outside call will be put on hold.
- If there is no answer, press [↷] to return to the outside call.

**2 Handset 2:**

[↶]

- Handset 2 can talk with handset 1.

**3 Handset 1:**

- To complete the call transfer, press [↷].
- To establish a conference call, press [CONF].
  - Pressing [↶] puts the external party on hold, establishing an intercom call with handset 2.

- To switch between handset 2 and the outside call, press [SWAP].

**Note:**

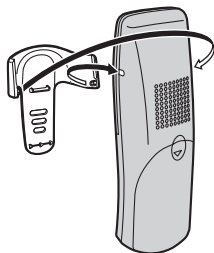
- You can also press [↶/⊗] to mute the conference call. Press [↶/⊗] again to resume the conference call.

---

## Using the belt clip

---

### Attaching the belt clip



### Removing the belt clip



## Character entry

The dial keys are used to enter characters and numbers. Each dial key has multiple characters assigned to it. You can select which character is entered by pressing a dial key repeatedly.

- Press [**◀**] or [**▶**] to move the cursor.
- Press dial keys to enter characters and numbers.
- Press [**DEL**] to erase the character or number left of the cursor. Press and hold [**DEL**] to erase all characters or numbers.
- Press [**★**] to switch between uppercase and lowercase.
- To enter another character located on the same dial key, press [**▶**] or wait 2 seconds to move the cursor to the next space, then press the appropriate dial key.
- [**DEL**] and [**OK**] are valid when the character list is shown on the bottom of the handset display.

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space # & ' ( ) *, - . / 1	A Ä Å Â Ã Ä Å Æ B C Ç Ć Č A B Γ 2	D Ď E È É Ê Ë Ë Ë F G Δ E Z 3	G Ğ H I Ì Í Î Ï Í J K L Θ I 4	J K L L L L K Λ M 5	M N Ñ Ñ Ñ O O O O O N Ξ O 6	P Q R R R S S S S β Π P Σ 7	T Ţ U Ü Ú Û Û Ü Û ù v T Y Φ 8	W Ű X Y Ý Ÿ ÿ Z Ž Ž Ž X Ψ Ω 9
		a â á â ã ä å Ä æ b c ç Ć Č A B Γ 2	d ě e è é ê ë ë ë ë f Δ E Z 3	g ğ h i ì í î ï í J K L Θ I 4	j k l L L L K Λ M 5	m n ñ Ñ ñ o ò ó ô õ ö ô ø N Ξ O 6	p q r R r s S S S β Π P Σ 7	t t' u ù ú û ü ü ü ù v T Y Φ 8	w Ű x y ý Ÿ ÿ z Ž Ž Ž X Ψ Ω 9

- The following are used for both uppercase and lowercase:

À Á Ć Č A B Γ È É Ê Ë Ì Í Î Ï J K L M N Ñ O R Š Š Š S β Π P Σ ù T Y Φ Ű Ÿ Ÿ Ž Ž Ž X Ψ Ω

## Error messages




Error message	Cause & solution
Busy	<ul style="list-style-type: none"> <li>• Intercom call failed (the other handset cannot be found or is on an outside call). Try again later.</li> <li>• Another handset is being used. Try again later.</li> <li>• Cancelling a handset failed. Try again (page 19).</li> </ul>
No Base Found	<ul style="list-style-type: none"> <li>• Handset registration failed (page 19). Try again.</li> </ul>
Wrong PIN!	<ul style="list-style-type: none"> <li>• Insert the correct base unit PIN. If you forget your base unit PIN, consult your nearest Panasonic service centre.</li> </ul>

## Troubleshooting

If you still have difficulties after following the instructions in this section, disconnect the base unit AC adaptor and remove the handset batteries. Then reconnect the base unit AC adaptor and install the batteries.

### Telephone

Problem	Cause & solution
☒ is flashing and “ <b>Register!</b> ” is shown on the handset display.	<ul style="list-style-type: none"> <li>• The handset is cancelled. If you want to register the handset to the base unit(s), follow “Registering a handset to a base unit”, page 19. If you want to use a base unit(s) which was registered to the handset before cancellation, select it by following “Selecting a base unit”, page 19.</li> </ul>
☒ is flashing and “ <b>Searching...</b> ” is shown on the handset display.	<ul style="list-style-type: none"> <li>• The handset is too far from the base unit. Move closer.</li> <li>• The base unit AC adaptor is not connected. Check the connections.</li> <li>• You may have selected the wrong base unit. Select the right base unit (page 19).</li> <li>• You are using the handset or base unit in an area with high electrical interference. Place the handset and base unit away from interference sources, such as antennas and mobile phones.</li> </ul>
The handset display is blank.	<ul style="list-style-type: none"> <li>• The handset is in screen saver mode (page 10). If charging, lift the handset to activate the handset display again. If the handset is not on the base unit, activate the handset display again by:               <ul style="list-style-type: none"> <li>– pressing [▲] or [▼] when on a call</li> <li>– pressing [✕] for all other times</li> </ul> </li> <li>• “<b>Dimmed Backlight</b>” is set to “<b>off</b>”. Change the setting (page 15).</li> </ul>
The handset will not turn on.	<ul style="list-style-type: none"> <li>• Make sure that the batteries are installed correctly (page 9).</li> <li>• Fully charge the batteries (page 9).</li> <li>• Clean the charge contacts and charge again (page 9).</li> </ul>
I have changed the display language to a language I cannot read.	<ul style="list-style-type: none"> <li>• Change the display language (page 10).</li> </ul>

Problem	Cause & solution
I cannot make or receive calls.	<ul style="list-style-type: none"> <li>• The base unit AC adaptor or telephone line cord is not connected. Check the connections.</li> <li>• If you are using a splitter to connect the unit, remove the splitter and connect the unit to the wall socket directly. If the unit operates properly, check the splitter.</li> <li>• Disconnect the base unit from the telephone line and connect the line to a known working telephone. If the working telephone operates properly, contact our service personnel to have the unit repaired. If the working telephone does not operate properly, contact your service provider/telephone company.</li> <li>• The dialling mode setting is incorrect. Set to “<b>Tone</b>” or “<b>Pulse</b>” as needed (page 11).</li> <li>• The key lock feature is turned on. Turn it off (page 13).</li> </ul>
The unit does not ring.	<ul style="list-style-type: none"> <li>• The ringer volume is turned off. Adjust the ringer volume (page 15, 17).</li> </ul>
The batteries should be charging but the battery icon does not change.	<ul style="list-style-type: none"> <li>• Clean the charge contacts and charge again (page 9).</li> </ul>
A busy tone is heard when  is pressed.	<ul style="list-style-type: none"> <li>• The handset is too far from the base unit. Move closer and try again.</li> <li>• Another handset is in use. Wait and try again later.</li> </ul>
Static is heard, sound cuts in and out. Interference from other electrical units.	<ul style="list-style-type: none"> <li>• Place the handset and the base unit away from other electrical appliances.</li> <li>• Move closer to the base unit.</li> <li>• Your unit is connected to a telephone line with DSL service (page 25).</li> </ul>
Noise is heard during a call.	<ul style="list-style-type: none"> <li>• You are using the handset or base unit in an area with high electrical interference. Place the handset and base unit away from interference sources, such as antennas and mobile phones.</li> </ul>
The handset stops working while being used.	<ul style="list-style-type: none"> <li>• Disconnect the base unit AC adaptor and remove the handset batteries. Connect the base unit AC adaptor, install the batteries and try again.</li> </ul>
The handset beeps intermittently and/or  flashes.	<ul style="list-style-type: none"> <li>• Fully charge the batteries (page 9).</li> </ul>
I fully charged the batteries, but  still flashes.	<ul style="list-style-type: none"> <li>• Clean the charge contacts and charge again (page 9).</li> <li>• It is time to replace the batteries (page 9).</li> </ul>
I fully charged the batteries, but the operating time seems to be short.	<ul style="list-style-type: none"> <li>• Wipe the battery ends (<math>\oplus</math>, <math>\ominus</math>) and the unit contacts with a dry cloth.</li> </ul>
Caller information is not displayed.	<ul style="list-style-type: none"> <li>• You need to subscribe to Caller ID service. Consult your service provider/telephone company for details.</li> <li>• Your unit is connected to a telephone line with DSL service (page 25).</li> </ul>



Problem	Cause & solution
I cannot register a handset to a base unit.	<ul style="list-style-type: none"><li>• The maximum number of handsets (5) are already registered to the base unit. Cancel unused handset registrations from the base unit (page 19).</li><li>• You entered the wrong PIN. If you forget your PIN, consult your nearest Panasonic service centre.</li><li>• Place the handset and the base unit away from other electrical appliances.</li></ul>
I cannot make intercom or transfer calls.	<ul style="list-style-type: none"><li>• Select the same base unit for each handset (page 19).</li></ul>

**For DSL users**

We recommend connecting a filter (contact your DSL service provider) to the telephone line between the base unit and the telephone line jack.

---

## Specifications

■ **Standard:**

DECT (Digital Enhanced Cordless  
Telecommunications),  
GAP (Generic Access Profile)

■ **Number of channels:**

120 Duplex Channels

■ **Frequency range:**

1.88 GHz to 1.90 GHz

■ **Duplex procedure:**

TDMA (Time Division Multiple Access)

■ **Channel spacing:**

1,728 kHz

■ **Bit rate:**

1,152 kbit/s

■ **Modulation:**

GFSK (Gaussian Frequency Shift Keying)

■ **RF transmission power:**

Approx. 250 mW

■ **Voice coding**

ADPCM 32 kbit/s

■ **Power source:**

220–240 V, 50 Hz

■ **Power consumption**

**Base unit:**

Standby: Approx. 2.0 W  
Maximum: Approx. 7.0 W

■ **Operating conditions:**

5 °C–40 °C, 20 %–80 % relative air humidity  
(dry)

■ **Dimensions:**

**Base unit:** Approx. 53 mm × 108 mm × 120 mm

**Handset:** Approx. 145 mm × 49 mm × 32 mm

■ **Mass (weight):**

**Base unit:** Approx. 140 g

**Handset:** Approx. 130 g

**Note:**

- Specifications are subject to change.
- The illustrations used in these operating instructions may differ slightly from the actual product.

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